EIP-AGRI thematic practice abstract

Short title:
The use of ammonium nitrate/sulphate as fertilizer

Summary:

Ammonium nitrate/sulphate refers to ammonium nitrate/sulphate solution recovered from stripping/evaporation + scrubbing process by nitric/sulphuric acid as scrubber. Input material: liquid fraction of pig manure, poultry manure, digestate, sulfuric acid or nitric acid. Ammonium sulphate and ammonium nitrate are odourless and suitable for replacing mineral fertilizers in agriculture. By stripping and scrubbing, it is possible to produce locally a pure nitrogen fertilizer without other nutrients. Another benefit of this ammonium sulphate is that it is providing sulphur as added value to meet the specific requirements of some crops. The main bottleneck is that the composition of ammonium nitrate and sulphate may vary throughout the production process and between different installations. Another risk is that spraying of these products can give leaf damage. Also, under the current regulations, ammonium sulphate/nitrate derived from stripping/scrubbing is treated as livestock manure and need to follow the limit of max 170 kg total N per hectare (230-250 kg N/ha for derogation farms in NL).

For more information:

- [https://nutriman.net/farmer-platform/product/id_266](https://nutriman.net/farmer-platform/product/id_266) (The Netherlands)
- [https://nutriman.net/farmer-platform/product/id_281](https://nutriman.net/farmer-platform/product/id_281) (The Netherlands)
- [https://nutriman.net/farmer-platform/product/id_274](https://nutriman.net/farmer-platform/product/id_274) (Belgium)
- [https://nutriman.net/farmer-platform/product/id_295](https://nutriman.net/farmer-platform/product/id_295) (Belgium)
- [https://nutriman.net/farmer-platform/product/id_454](https://nutriman.net/farmer-platform/product/id_454) (The Netherlands)
- [https://nutriman.net/farmer-platform/product/id_596](https://nutriman.net/farmer-platform/product/id_596) (Belgium)
- [https://nutriman.net/farmer-platform/product/id_1529](https://nutriman.net/farmer-platform/product/id_1529) (The Netherlands)
- [https://nutriman.net/farmer-platform/product/id_667](https://nutriman.net/farmer-platform/product/id_667) (Germany)